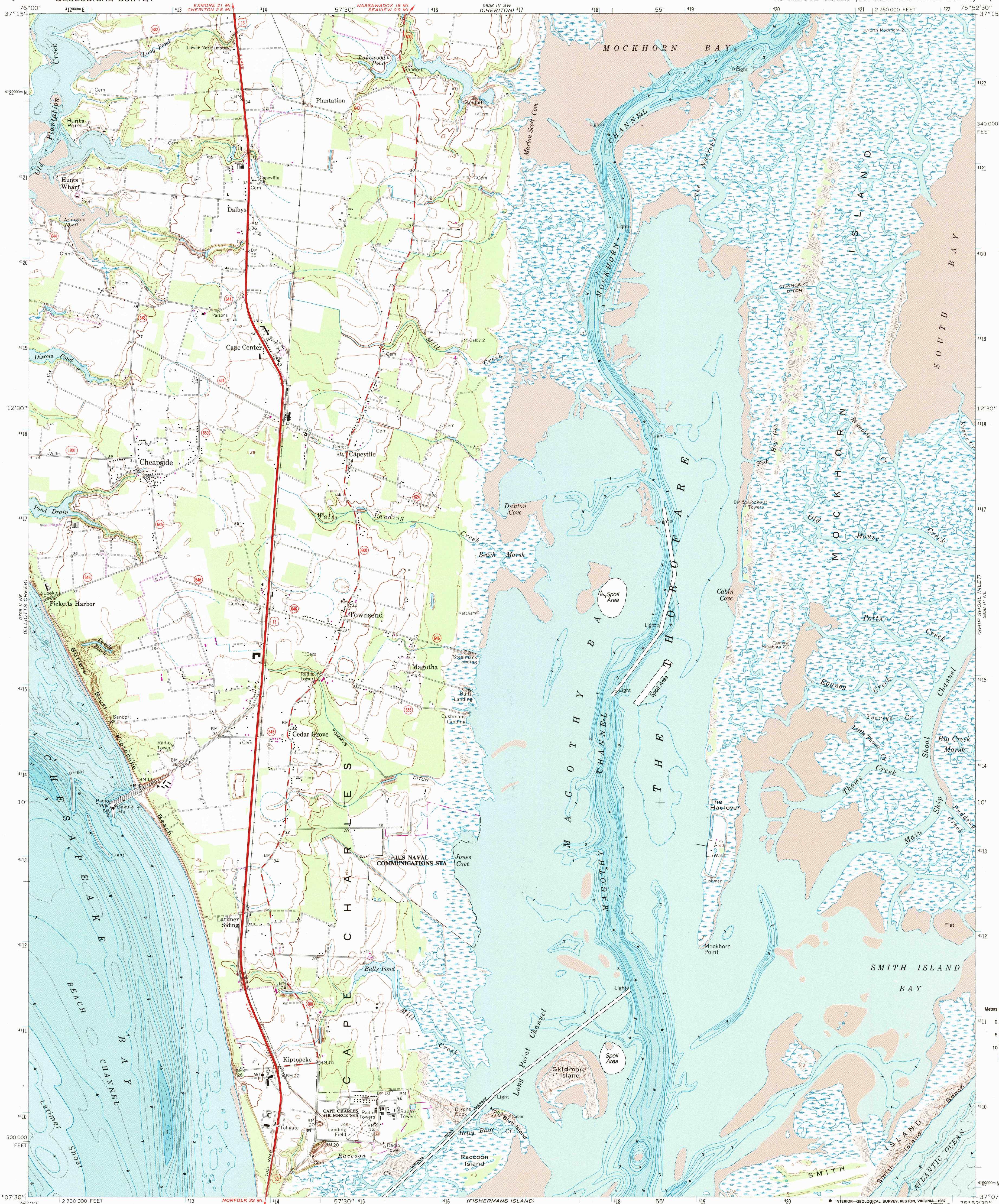




Mapped, edited, and published by the Geological Survey
and the National Ocean Service

Control by USGS and NOS/NOAA

Topography by photogrammetric methods from aerial photographs
taken 1967. Field checked 1968

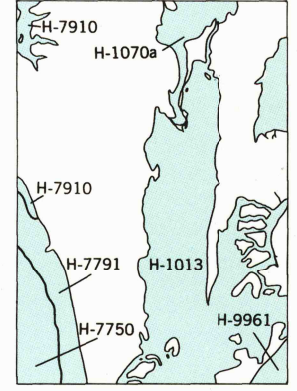
Bathymetry compiled by the National Ocean Service from
tide-coordinated hydrographic surveys. This information
is not intended for navigational purposes
Mean low water (dotted) line and mean high water (heavy solid) line
compiled by NOS from tide-coordinated aerial photographs. Apparent
shoreline (outer edge of vegetation) shown by light solid line

Polyconic projection. 1927 North American Datum
10,000-foot grid based on Virginia coordinate system, south zone
1000-meter Universal Transverse Mercator grid ticks,
zone 18, shown in blue

To place on the predicted North American Datum 1983,
move the projection lines 10 meters south and
30 meters west as shown by dashed corner ticks
There may be private inholdings within the boundaries of
the National or State reservations shown on this map
Short dashed blue lines indicate elliptical bay outlines
visible on aerial photographs

Revisions shown in purple compiled in cooperation with Commonwealth
of Virginia agencies from aerial photographs taken 1978 and other
source data. This information not field checked. Map edited 1980.

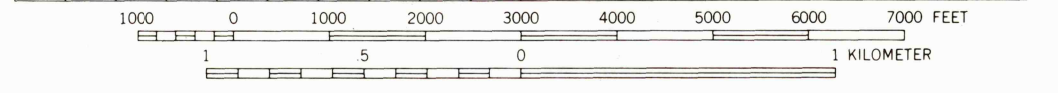
NATIONAL OCEAN SERVICE
HYDROGRAPHIC SURVEY INDEX



HYDROGRAPHIC SURVEY INFORMATION

SURVEY NUMBER	SURVEY DATE	SURVEY SCALE	SURVEY LINE SPACING (NAUT. MILES)
H-1013	1869	1:20,000	15-30
H-1070a	1870	1:20,000	20-40
H-7790	1940	1:40,000	15-30
H-7791	1949	1:10,000	02-10
H-7019	1960	1:10,000	02-06
H-9961	1981	1:20,000	02-07

SCALE 1:24,000



CONTOUR INTERVAL 5 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929
BATHYMETRIC CONTOUR INTERVAL 1 METER WITH SUPPLEMENTARY
0.5 METER CONTOURS-DATUM IS MEAN LOW WATER
THE RELATIONSHIP BETWEEN THE TWO DATUMS IS VARIABLE

BASE MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
BATHYMETRIC SURVEY DATA COMPLIES WITH INTERNATIONAL HYDROGRAPHIC
ORGANIZATION (IHO) SPECIAL PUBLICATION 44 ACCURACY STANDARDS
AND/OR STANDARDS USED AT THE DATE OF THE SURVEY
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
NATIONAL OCEAN SERVICE, ROCKVILLE, MARYLAND 20862
AND VIRGINIA DIVISION OF MINERAL RESOURCES, CHARLOTTESVILLE, VIRGINIA 22903
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ROAD CLASSIFICATION

Primary highway, all weather, hard surface
Secondary highway, all weather, hard surface
Light-duty road, all weather, improved surface
Unimproved road, fair or dry weather

U. S. Route
State Route

TOWNSEND, VA.
37075-88-TB-024

1968
PHOTOREVISED 1980

BATHYMETRY ADDED 1986
DMA 5858 III NW-SERIES V834

UTM GRID AND 1986 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

Boundary lines shown in purple compiled from latest
information available from the controlling authority